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Supplemental material

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Table S1: Results of a random-effects model of HOMA-B

Intervention	Coef.	SD	z	P> z	[95% CI]
EXBID	-0.46	0.91	-5.07	0.001	-0.64, -0.28
Glibenclamide 2.5mg	-0.51	0.32	-1.55	0.121	-1.14, 0.13

insulin	-0.27	0.09	-2.81	0.005	-0.45, -0.08
MET	-0.39	0.12	-3.38	0.001	-0.62, -0.16
PIO	-0.48	0.10	-4.85	0.001	-0.68, -0.29
SITA	-0.49	0.12	-4.01	0.001	-0.73, -0.25
placebo	-0.45	0.31	-1.45	0.147	-1.06, 0.16
Semaglutide QW	0.11	0.11	1.03	0.303	-0.10, 0.32

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435 **Table S2: Results of a random-effects model of FBG**

Intervention	Coef.	SD	z	P> z	[95% CI]
EXBID	0.20	0.46	0.44	0.658	-0.70, 1.10
Glibenclamide 2.5mg	-0.07	0.75	-0.09	0.925	-1.54, 1.40
insulin	-0.02	0.49	-0.04	0.968	-0.97, 0.93
MET	0.34	0.61	0.56	0.574	-0.85, 1.54
PIO	-0.21	0.50	-0.42	0.675	-1.19, 0.77
SITA	1.23	0.63	1.96	0.050	0.002, 2.48
placebo	0.71	0.79	0.91	0.365	-0.83, 2.26
Semaglutide QW	-0.80	0.66	-1.22	0.222	-2.08, 0.48

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437 **Table S3: Results of a random-effects model of HbA1c**

Intervention	Coef.	SD	z	P> z	[95% CI]
EXBID	0.12	0.18	0.66	0.511	-0.25, 0.48
Glibenclamide 2.5mg	-0.08	0.32	-0.24	0.808	-0.71, 0.55
insulin	0.14	0.18	0.74	0.457	-0.22, 0.49
MET	0.18	0.24	0.74	0.460	-0.29, 0.65
PIO	0.16	0.19	0.83	0.407	-0.22, 0.54
SITA	0.51	0.24	2.09	0.037	0.03, 0.99
placebo	0.52	0.31	1.66	0.097	-0.09, 1.13
Semaglutide QW	-0.60	0.25	-2.40	0.016	-1.09, -0.11

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439 **Table S4: Results of a random-effects model of weight loss**

Intervention	Coef.	SD	z	P> z	[95% CI]
EXBID	-0.73	0.20	-3.56	0.001	-1.13, -0.33
Glibenclamide 2.5mg	4.47	1.58	2.84	0.005	1.38, 7.57
insulin	3.99	0.24	16.95	0.001	3.53, 4.45
MET	-0.07	0.28	-0.25	0.799	-0.61, 0.47
PIO	3.27	0.29	11.25	0.001	2.70, 3.84
SITA	1.13	0.35	3.19	0.001	0.44, 1.82
placebo	1.27	1.46	0.87	0.382	-1.58, 4.13

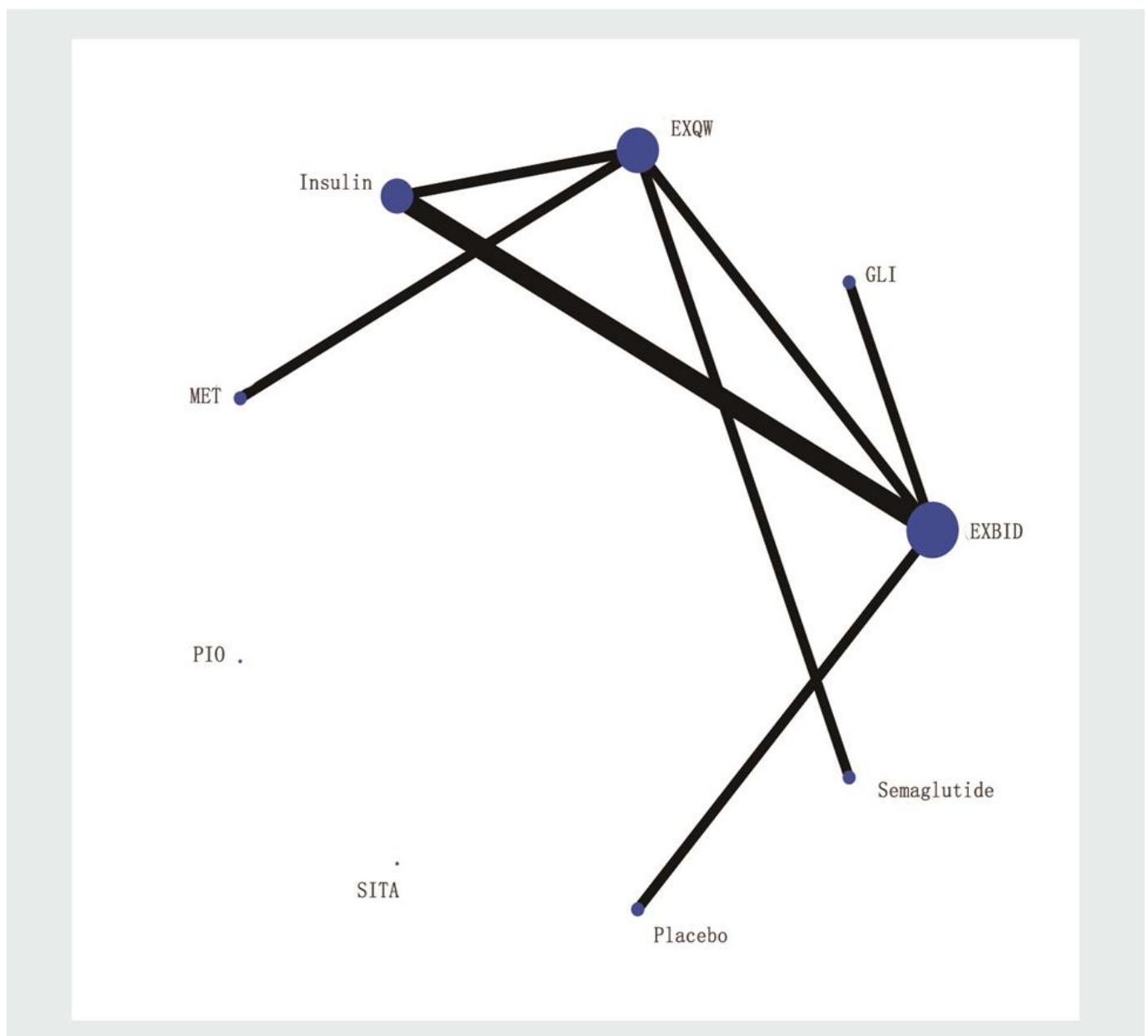
Semaglutide QW	-3.70	0.41	-9.02	0.001	-4.50, -2.90
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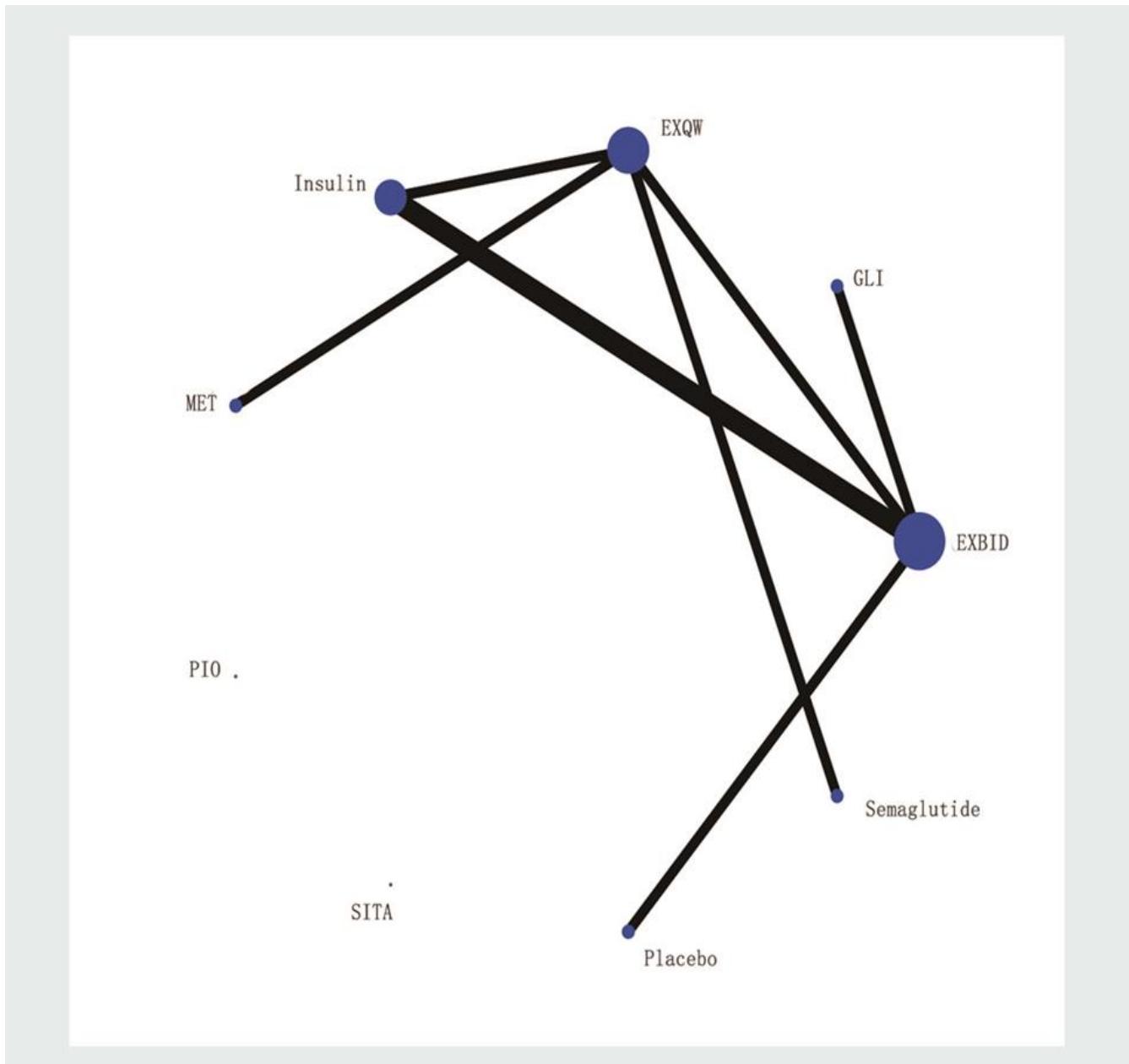
443 Figure S1: Evidence structure of eligible comparisons for network meta-
444 analysis of the secondary outcomes (FBG, HbA1c, Weight loss)



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A: FBG

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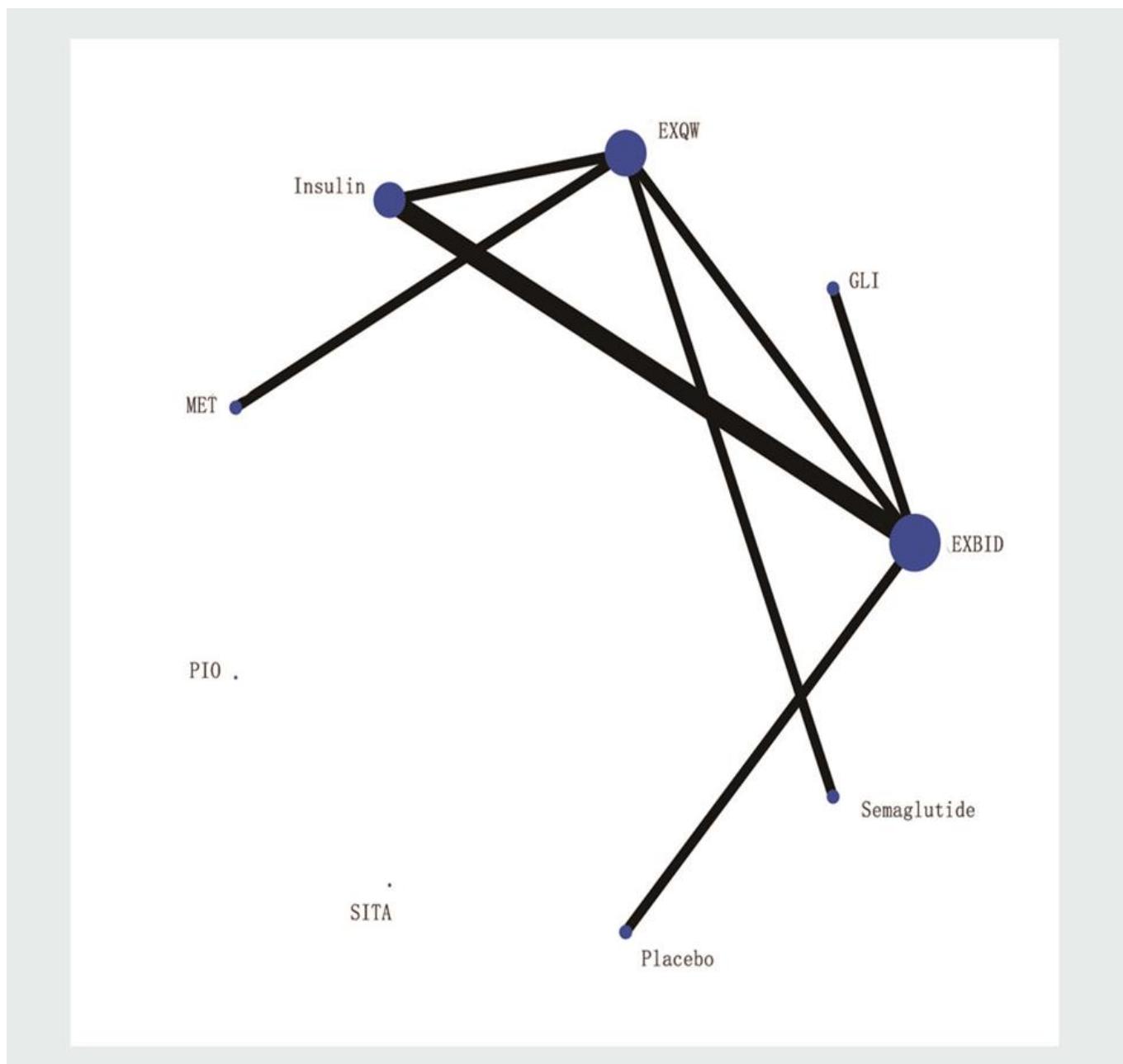
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B: HbA1c

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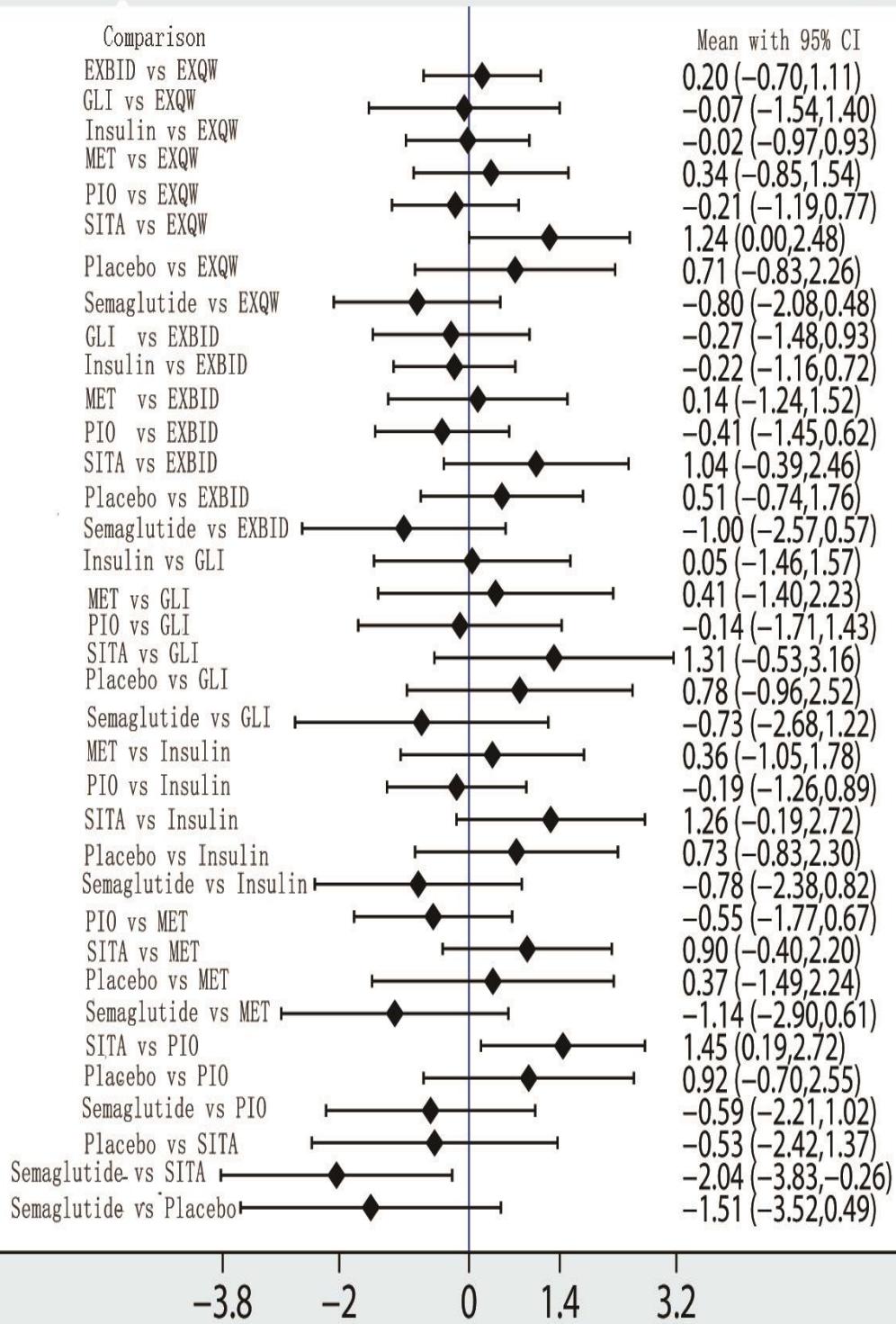


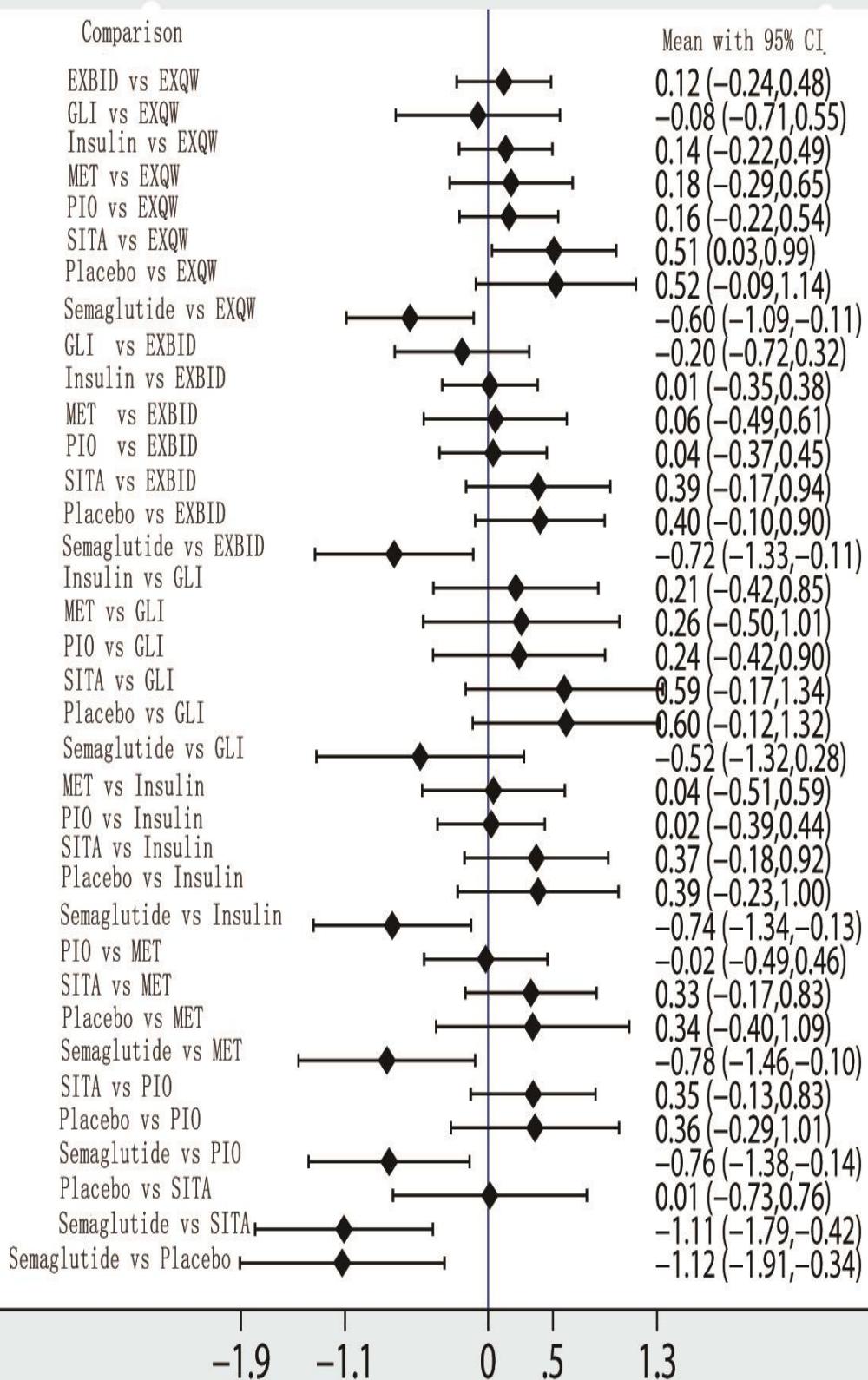
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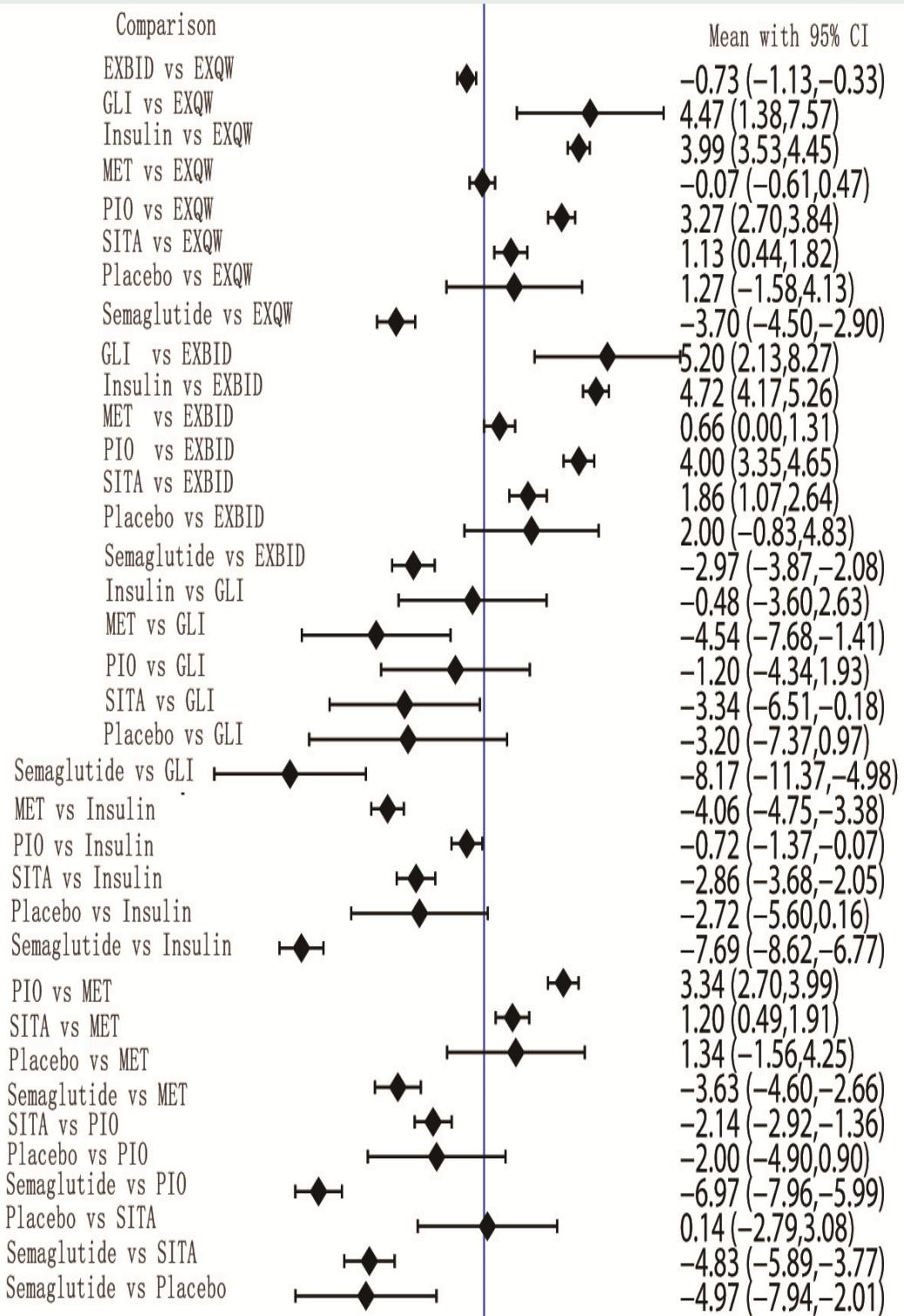
C: Weight loss

452 **Figure S2: Results of network meta-analysis of the secondary outcomes**

453 **(FBG, HbA1c, Weight loss).**

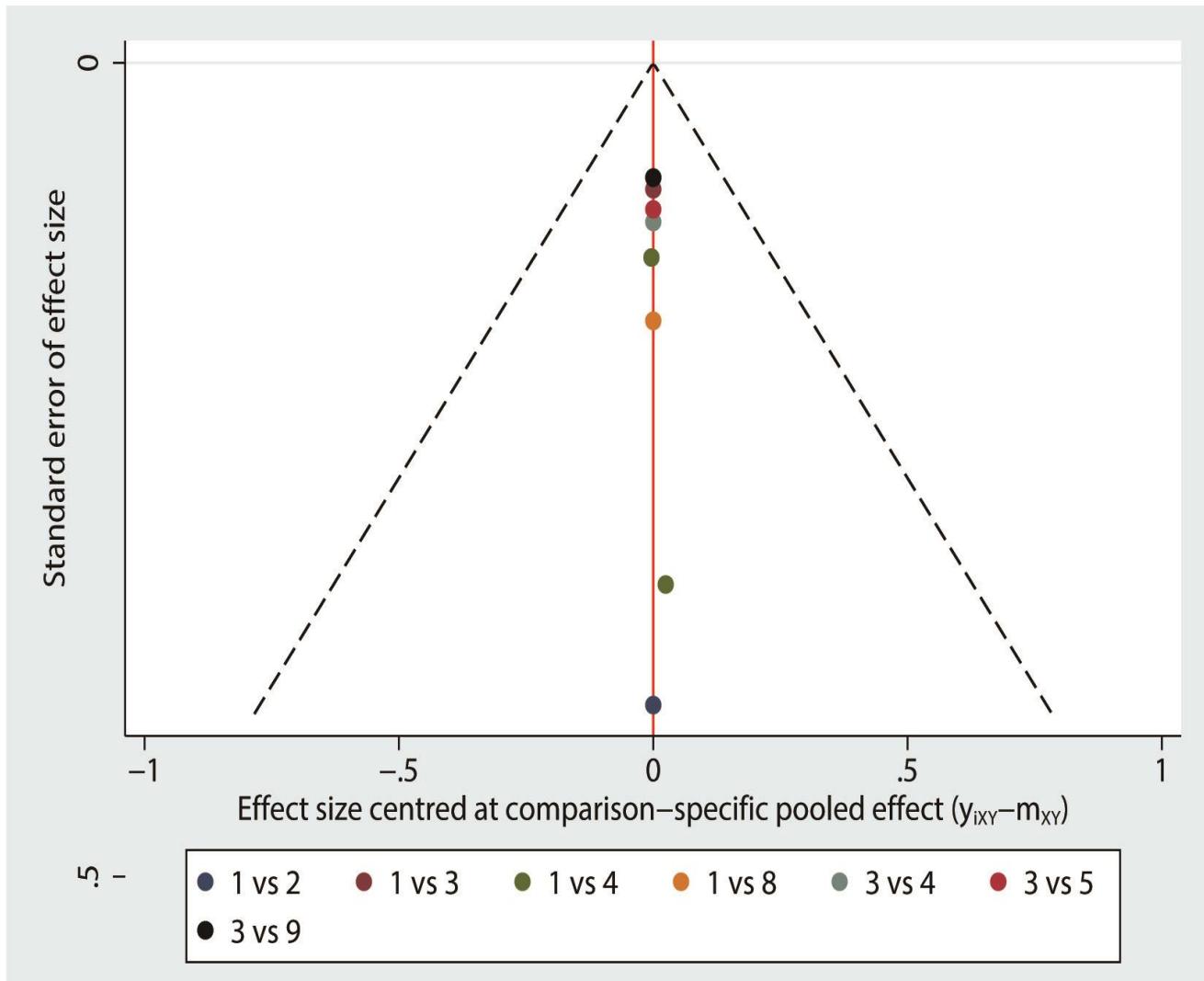






459 **Figure S3: Comparison-adjusted funnel plots of the secondary outcomes**

460 (**FBG, HbA1c, Weight loss**)



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A: FBG

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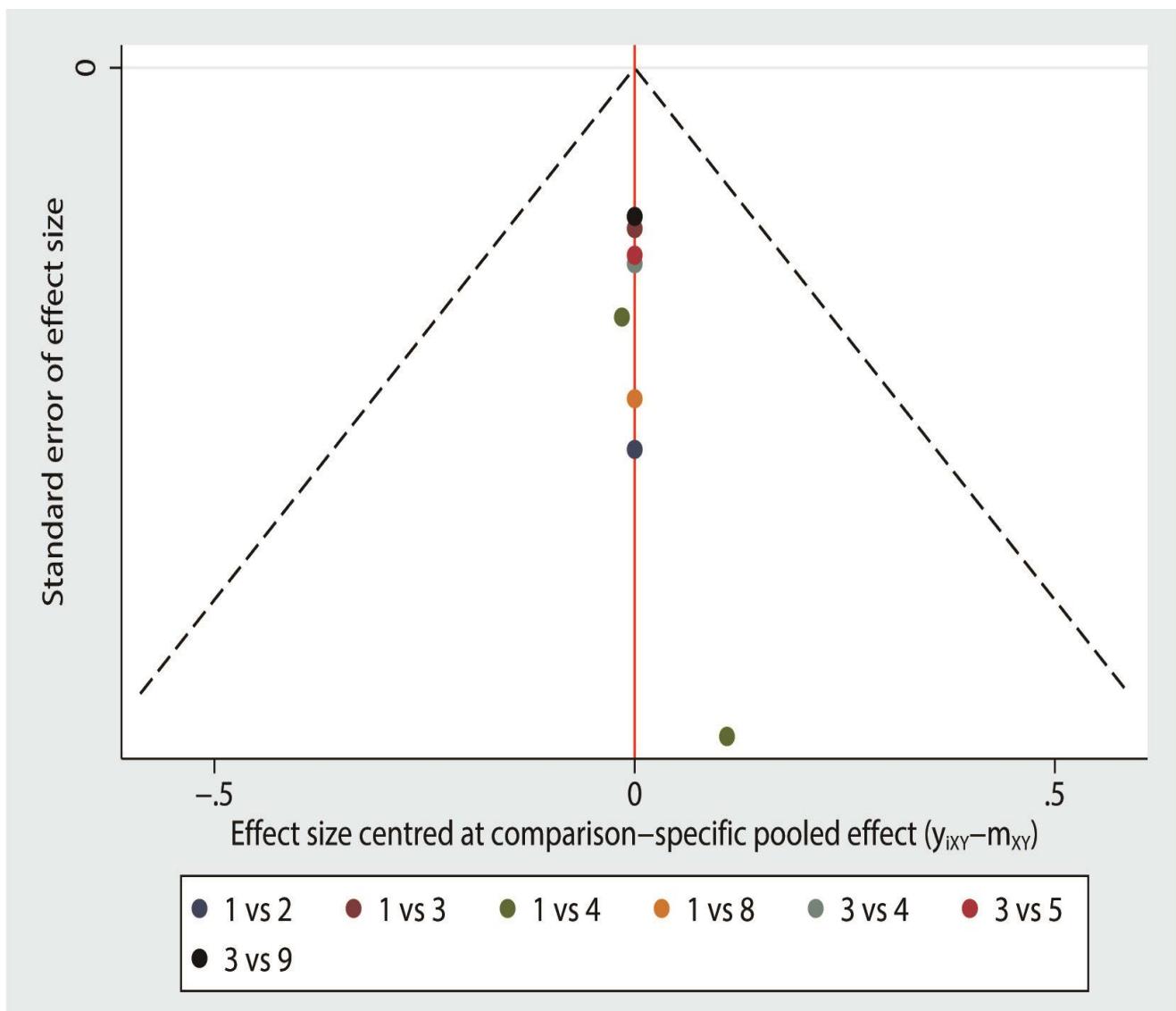
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B: HbA1c

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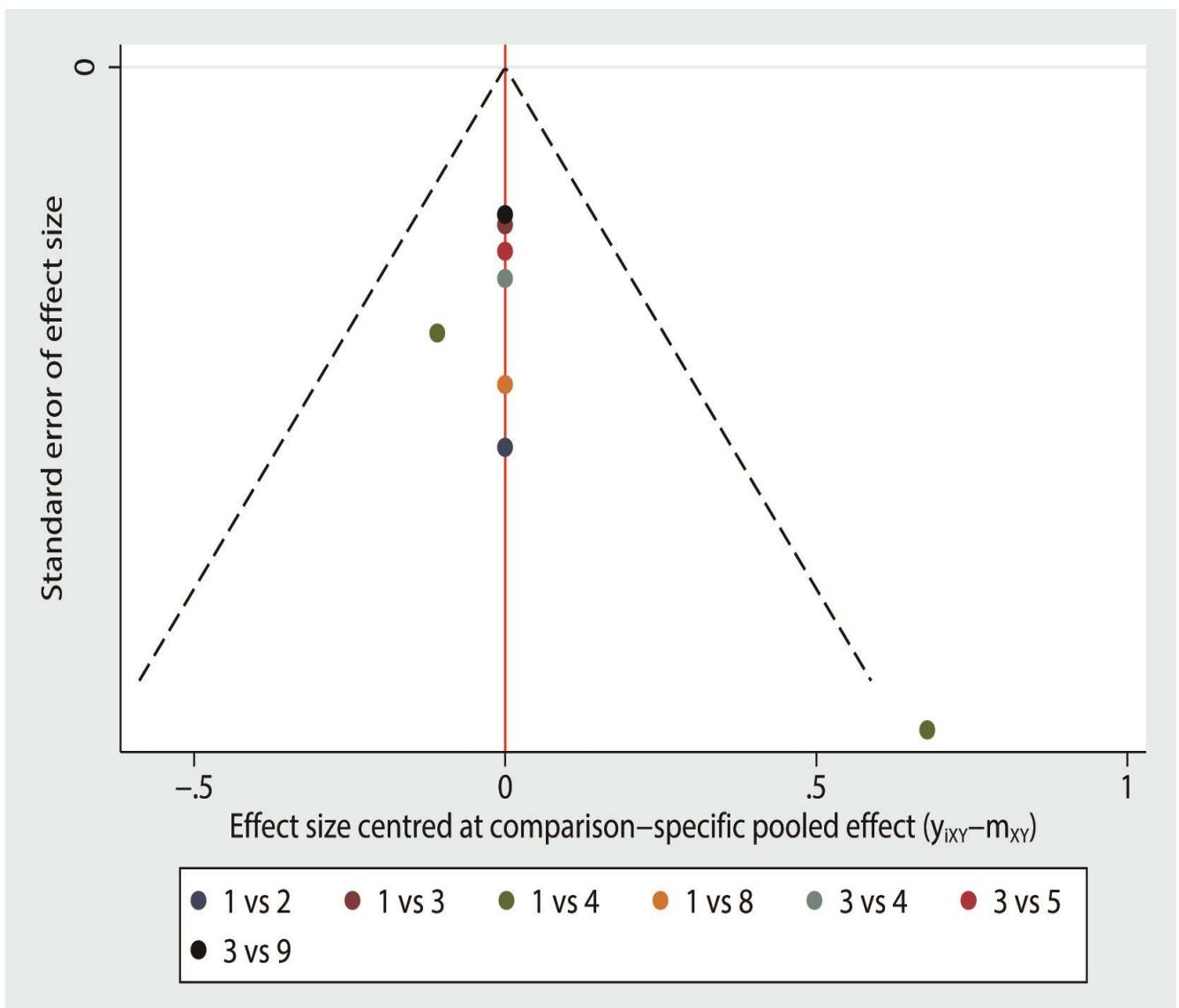
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C: Weight loss

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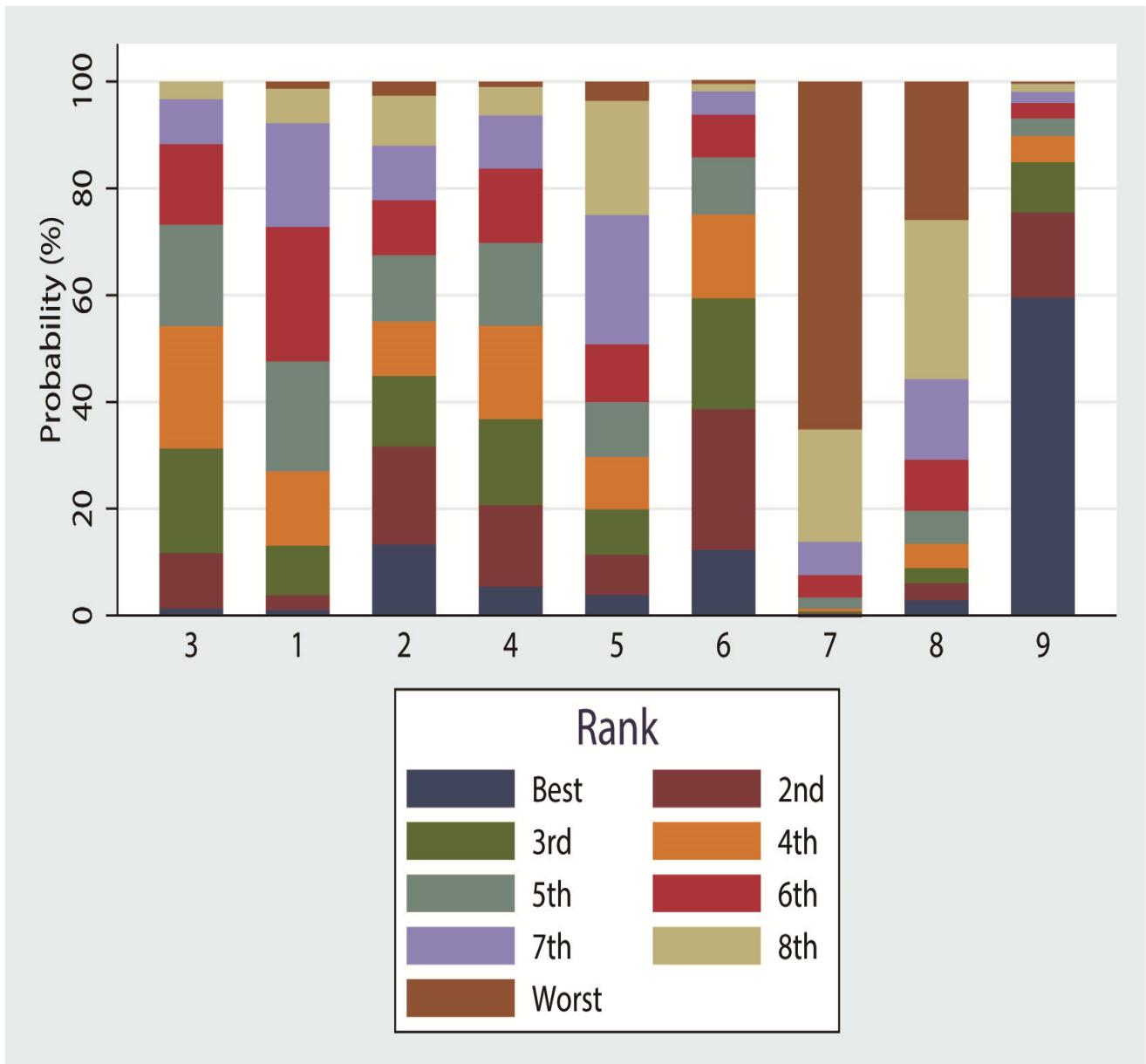
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484 Figure S4: Plots of cumulative ranking probability of the secondary
485 outcomes (FBG, HbA1c, Weight loss)



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A: FBG

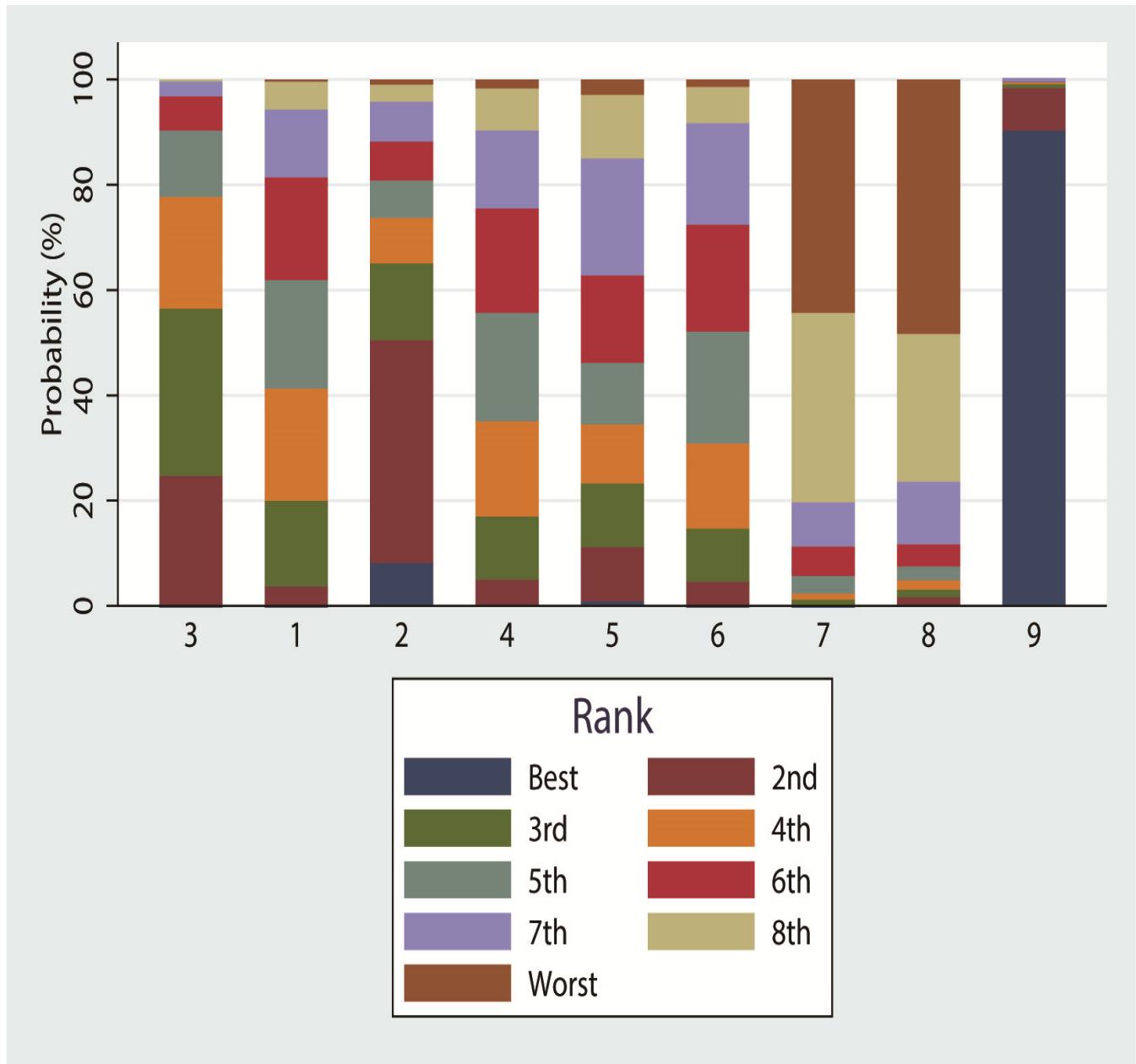
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B: HbA1c

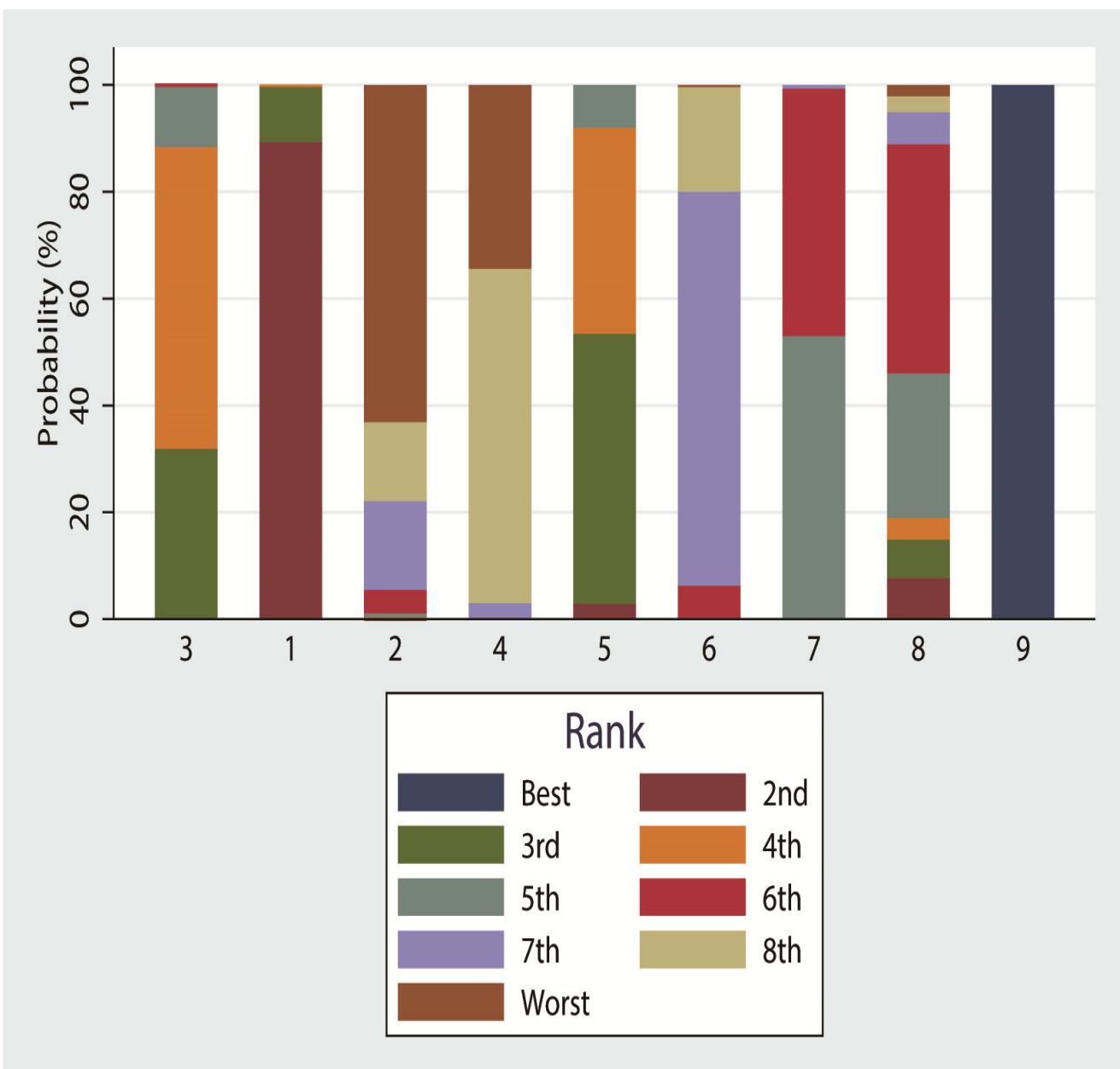
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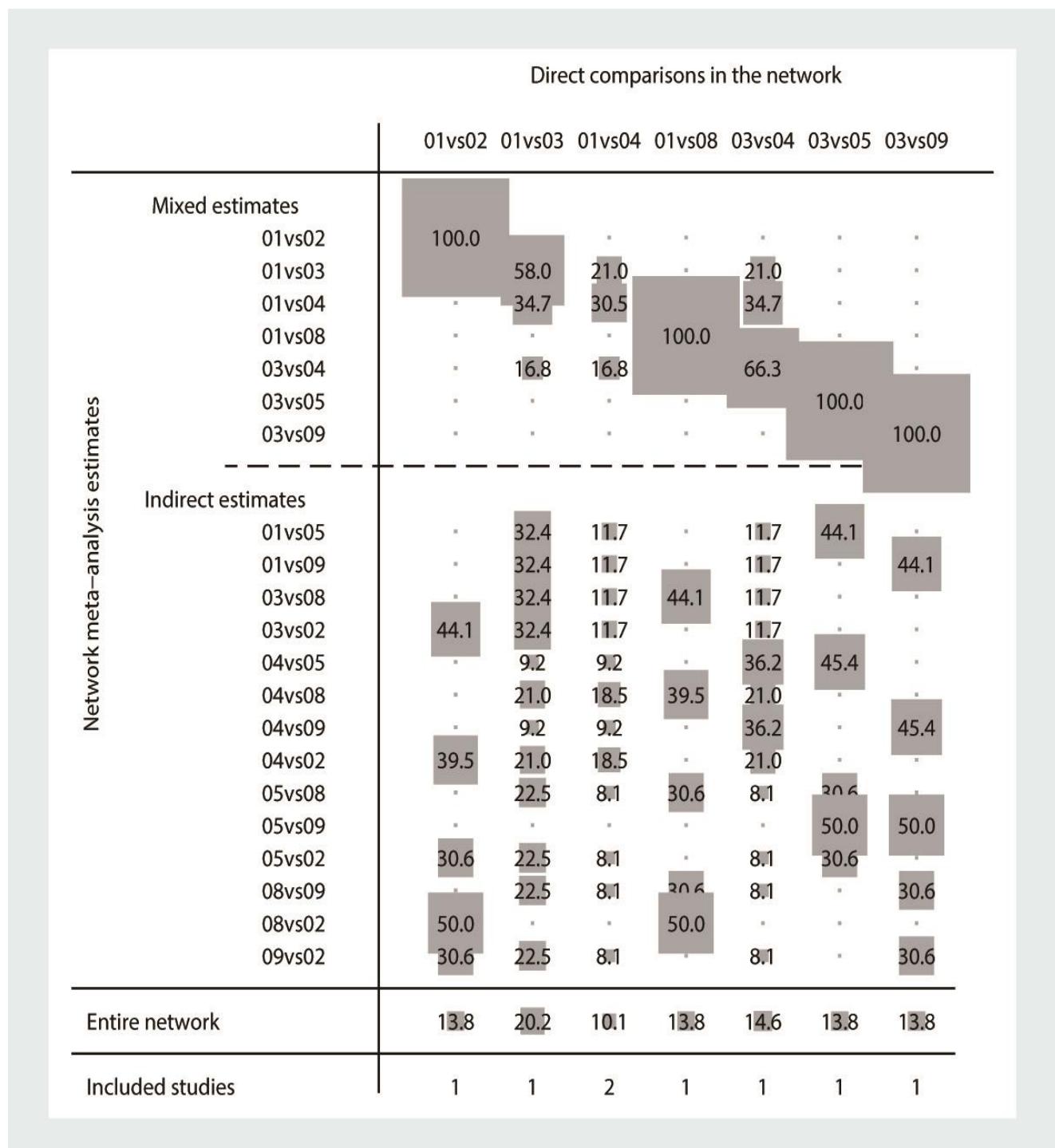


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C: Weight loss

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500 **Figure S5: The contribution plots of included studies**



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A: FBG

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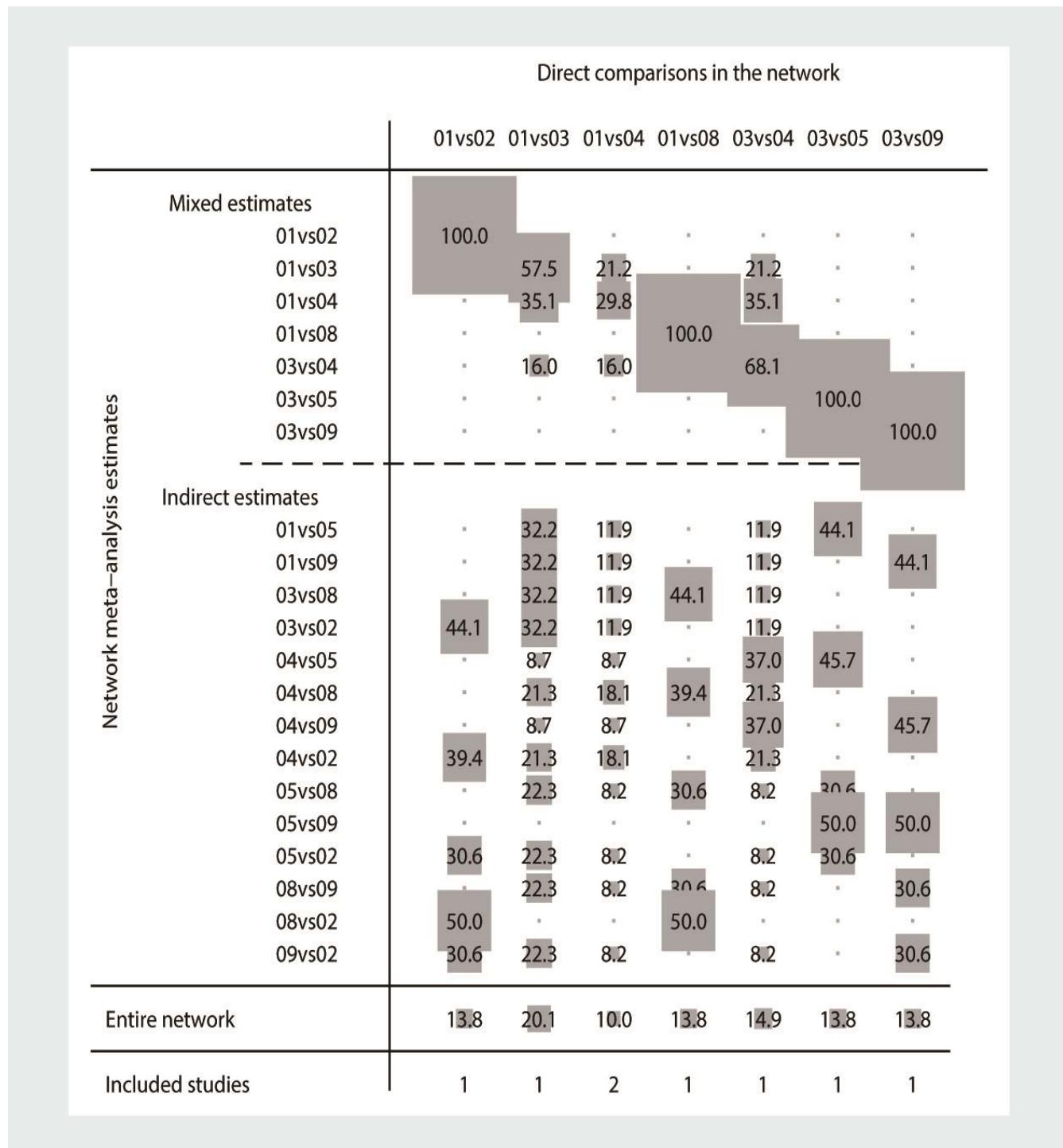
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B: HbA1c

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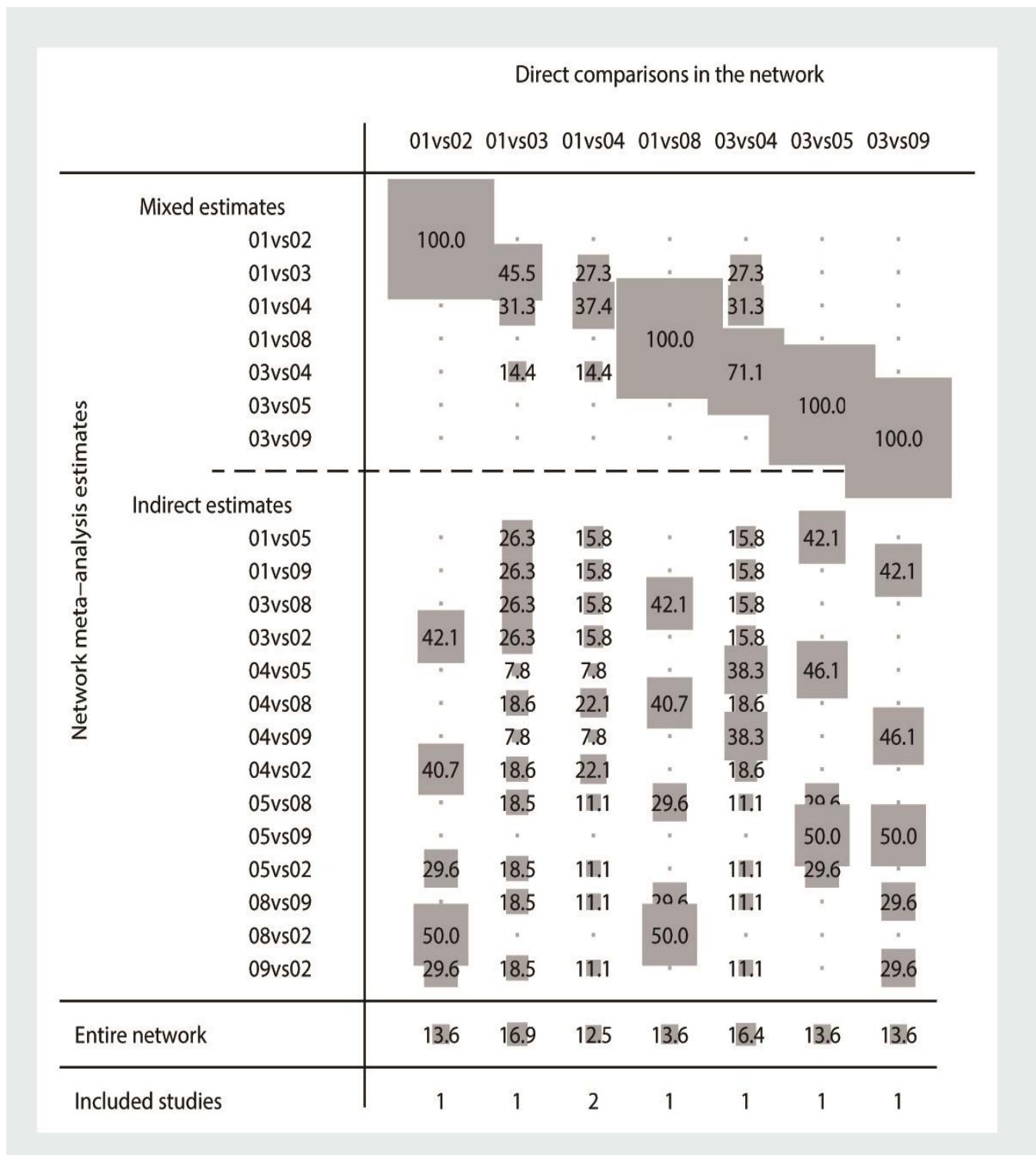
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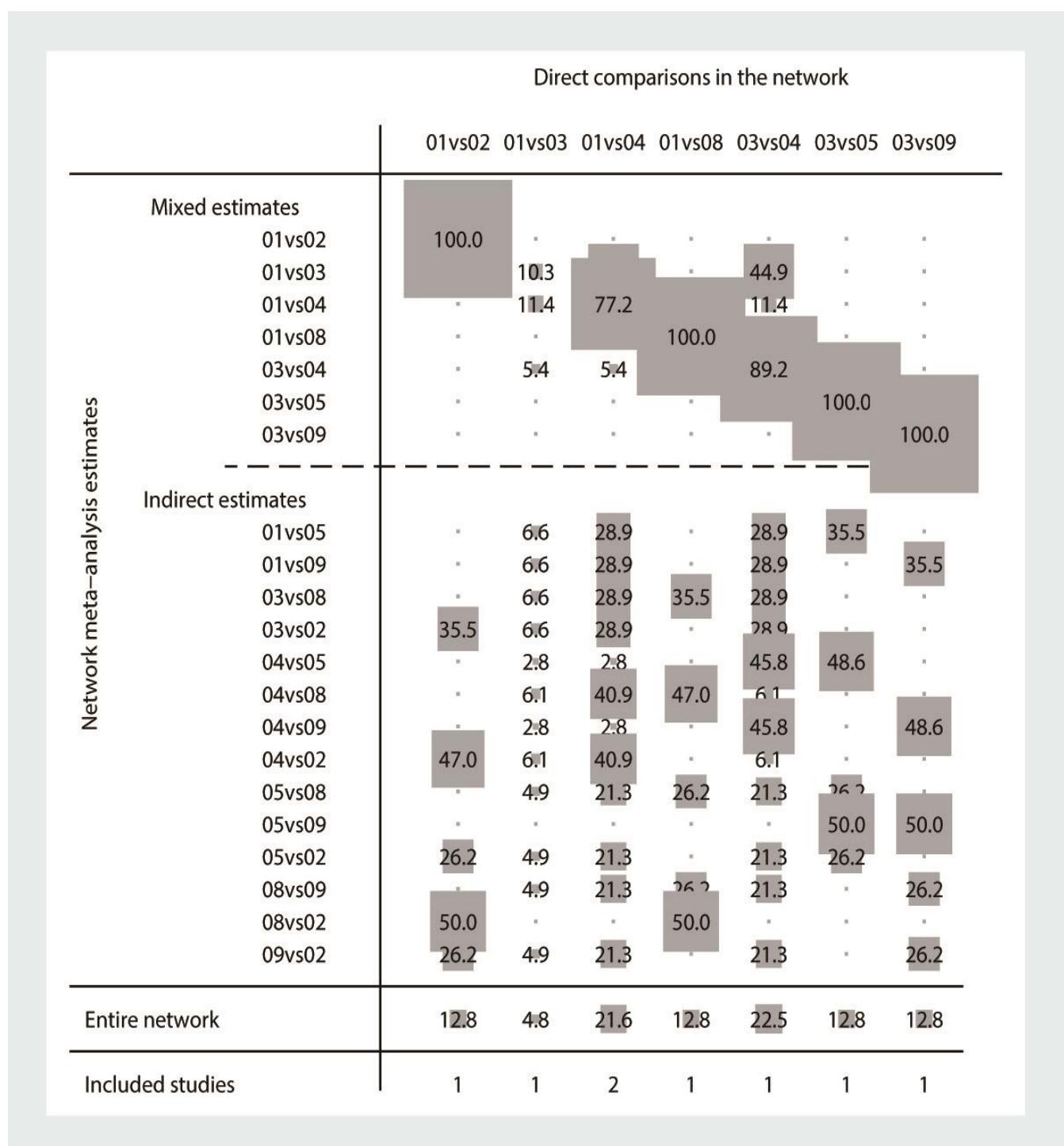


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C: HOMA- β

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D: Weight loss

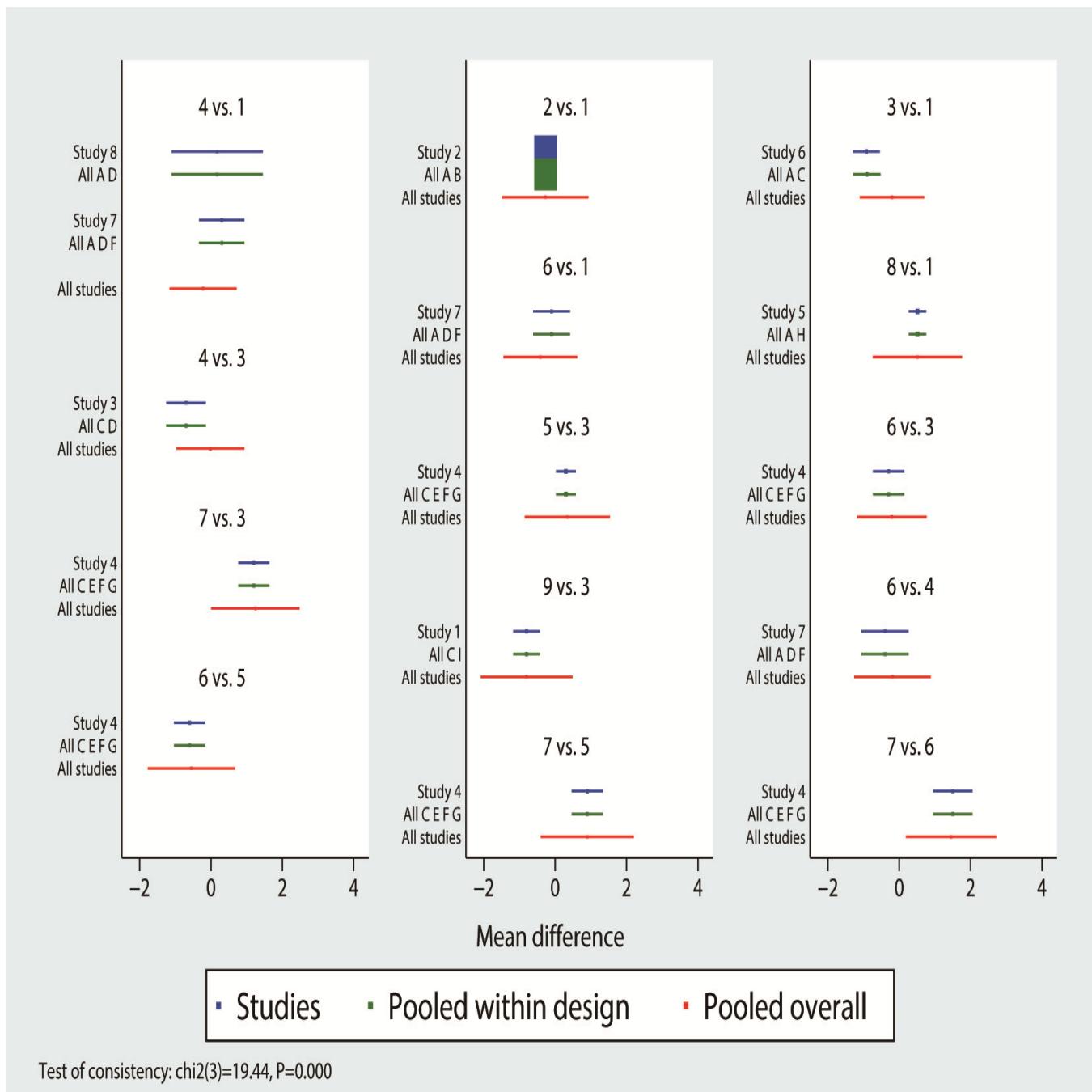
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1: EXBID; 2: GLI; 3: EXQW; 4: Insulin; 5: MET; 6: PIO; 7: SITA; 8: Placebo; 9: Semaglutide

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525 **Figure S6: Node-splitting plots of outcomes**



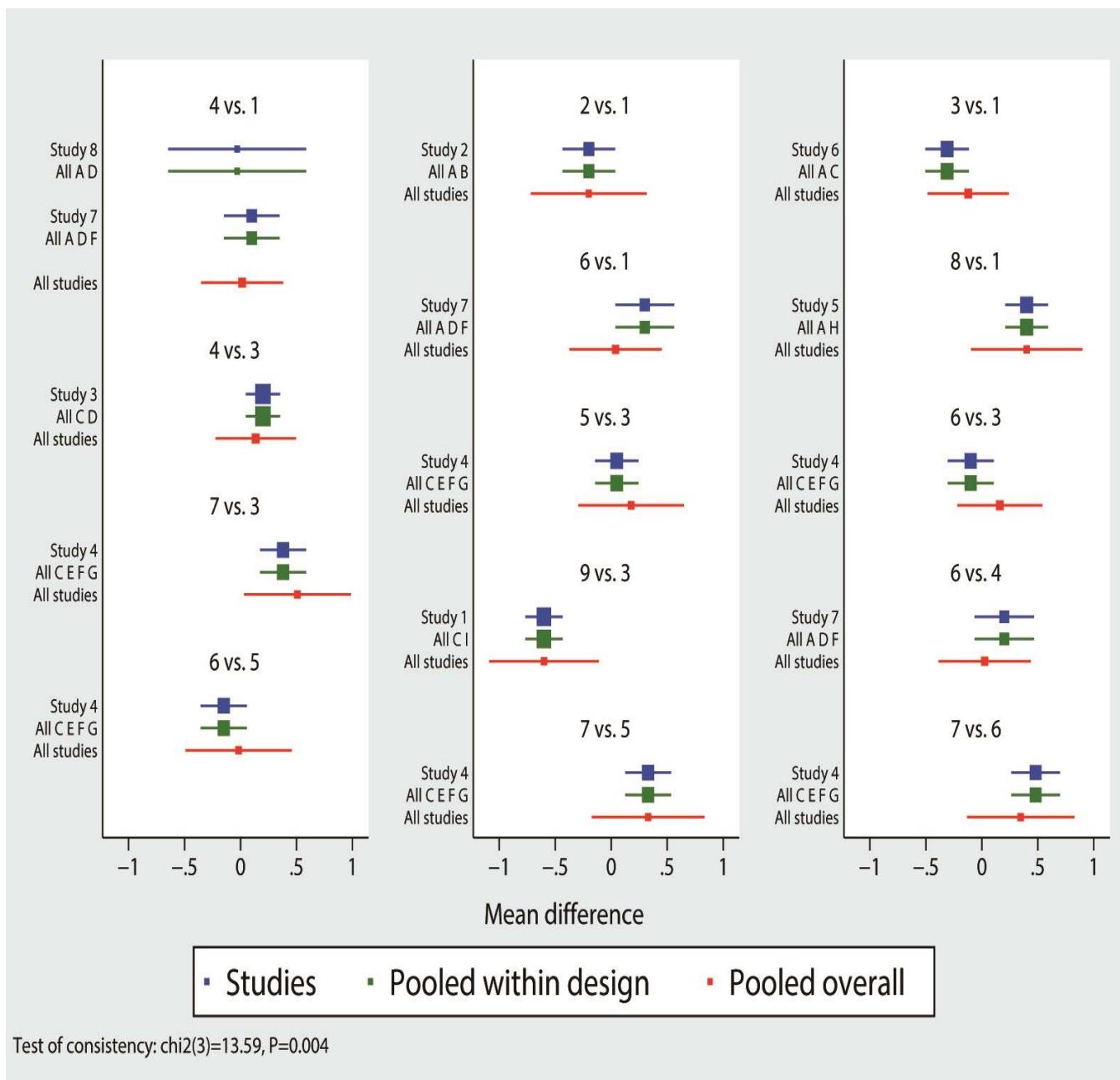
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A: FBG

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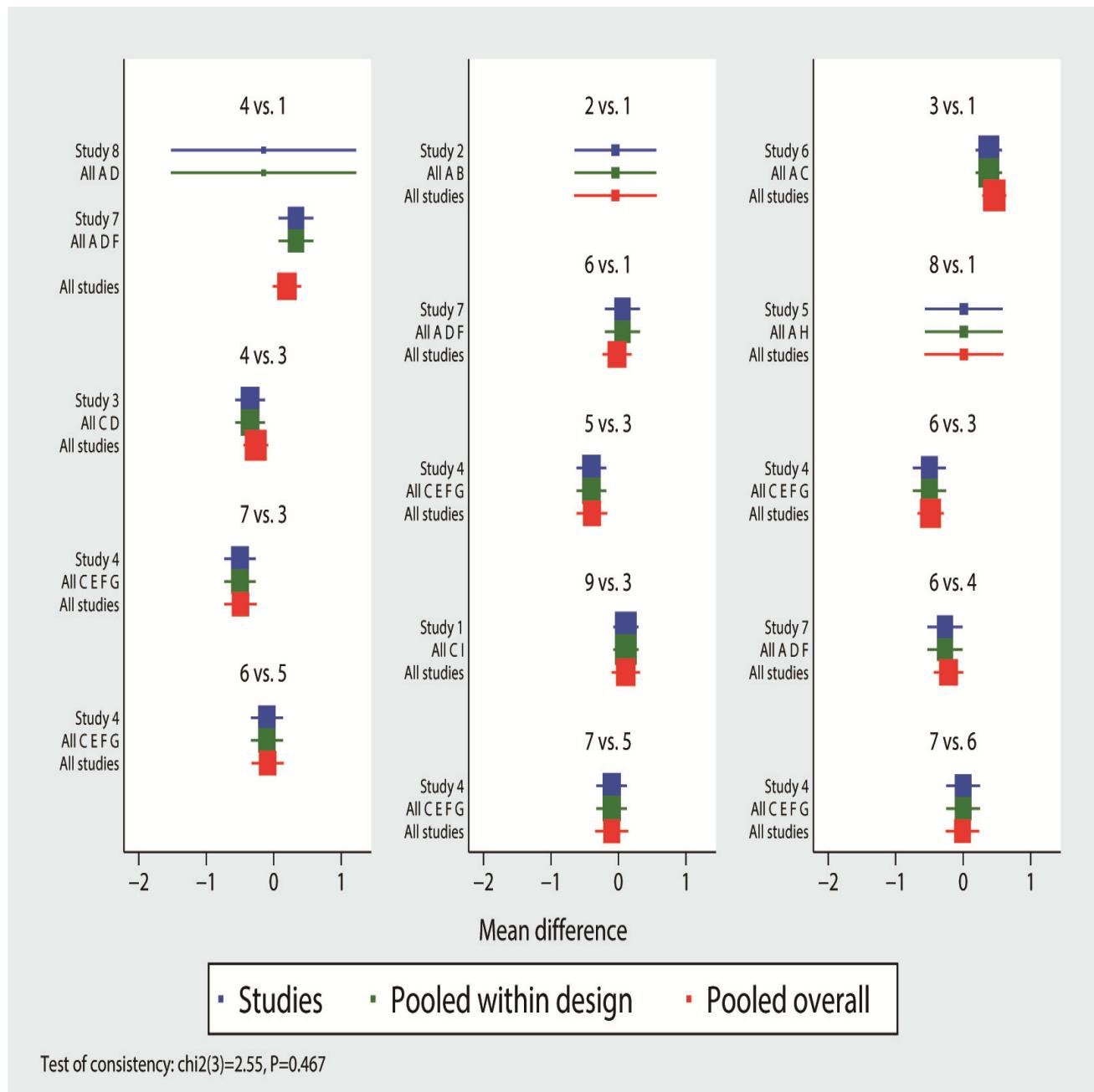
530 Test of consistency: $\chi^2(3)=13.59, P=0.004$

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B: HbA1c



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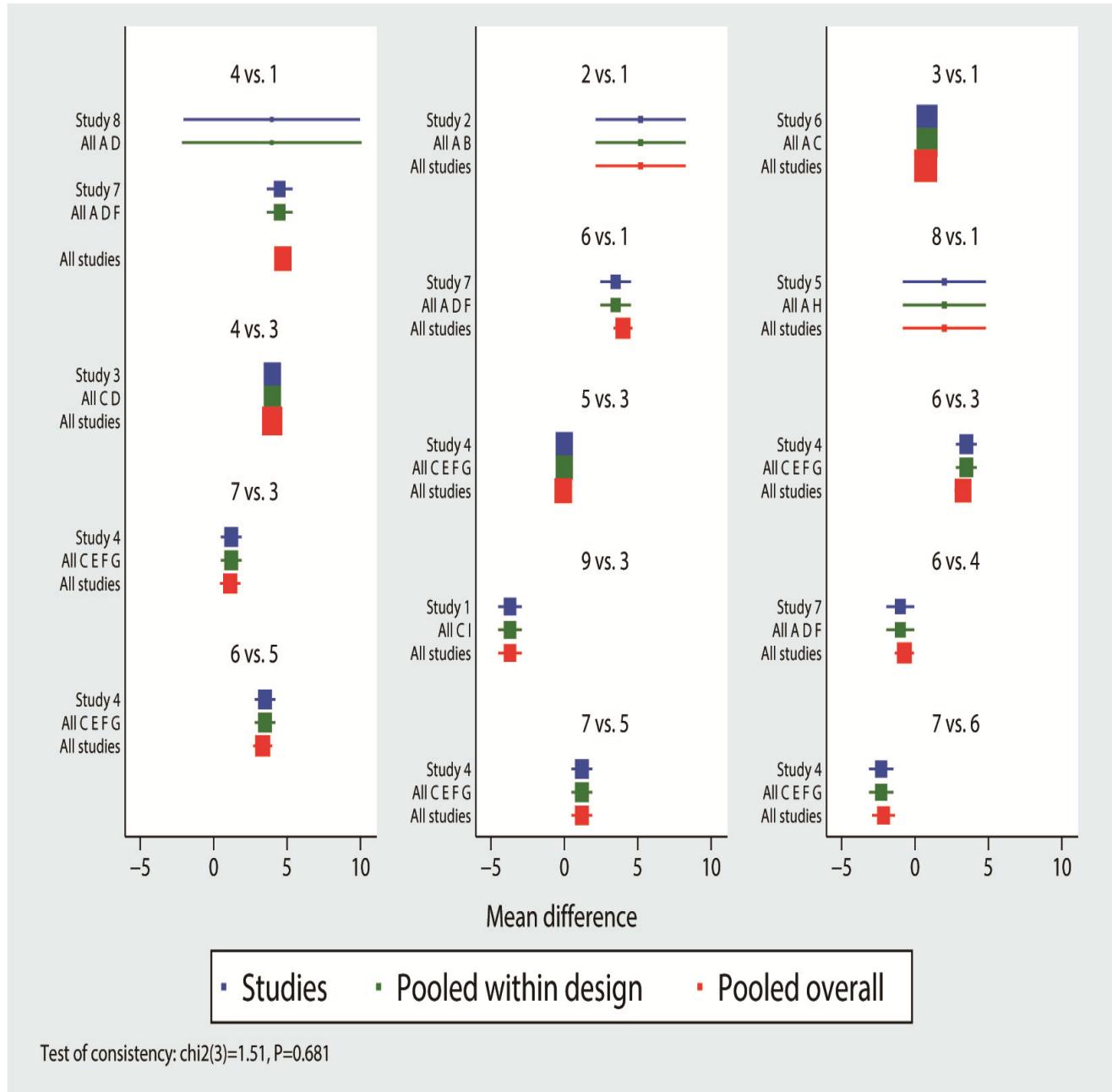
C: HOMA- β

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**D: Weight loss**

541 1: EXBID; 2: GLI; 3: EXQW; 4: Insulin; 5: MET; 6: PIO; 7: SITA; 8: Placebo; 9: Semaglutide